

WHAT IS CLAIMED IS

1. A mobile communication controlling apparatus for  
5 controlling inter-frequency handover, comprising:  
    a required quality identifying unit configured to  
    identify a quality required for data addressed to a mobile  
    station;  
    a transmission rate control unit configured to control  
10 a data transmission rate of a higher layer based on the  
    identification result supplied from the required quality  
    identifying unit; and  
    an inter-frequency handover instruction unit configured  
    to temporarily suspend signal transmission from a radio base  
15 station connected to the mobile communication controlling  
    apparatus and allow the mobile station to perform inter-  
    frequency measurement.
- 20 2. The apparatus of claim 1, wherein the required quality  
    identifying unit determines whether the identified quality  
    accepts delay variation, and if the identified quality does  
    not accept delay variation, then the transmission rate  
    control unit reduces the transmission rate of the higher  
25 layer.
3. The apparatus of claim 2, wherein the transmission rate  
    control unit reduces the transmission rate of the higher  
30 layer below a physical layer transmission rate when the  
    identified quality does not accept delay variation.

4. The apparatus of claim 1, wherein the inter-frequency handover instruction unit allows the mobile station to implement a compressed mode to perform the inter-frequency measurement.

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5. The apparatus of claim 1, further comprising:

a frequency information management unit configured to manage information about allocatable carrier frequencies of surrounding areas of the radio base station.

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6. The apparatus of claim 5, wherein the transmission rate control unit controls the transmission rate of the higher layer if there is an allocatable carrier frequency in the surrounding areas.

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7. A method for controlling inter-frequency handover, comprising the steps of:

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establishing a wireless link between a mobile station and a radio base station;

detecting a trigger for inter-frequency handover for the mobile station communicating with the radio base

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station;

determining whether a quality required for data transmitted to the mobile station accepts delay variation;

reducing a data transmission rate of a higher layer if the required quality does not accept delay variation; and

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temporarily suspending signal transmission from the radio base station to allow the mobile station to perform inter-frequency measurement.